

Abstract

The invention relates to a method for monitoring the quality of spot welding, in particular for robotic applications.

According to said method, workpieces, in particular metal sheets (3, 4), are welded together by means of spot welding tools. The sheets (3, 4) are placed between at least two electrodes (6), which are pressed against one another and supplied with energy.

The weld spot (13) is evaluated by means of an evaluation element, in particular an optical visualization. A tape is placed between the electrodes (6) or electrode caps (8) and the sheets (3, 4), said tape being transported onwards after the welding process. The tape (7) is configured in such a way that a mirror-image, in particular a proportional reproduction or impression (14) of the weld spot that has been produced on the workpiece, is created by the welding process on the tape (7). The reproduction or impression is detected and evaluated by the evaluation element and the size, shape and position of the weld spot are deduced.